

ABSTRACT OF THE DISCLOSURE

The present invention is drawn to a fusion protein containing at least one binding domain that specifically recognizes an epitope of a plant pathogen and at least one additional domain made from a protein or peptide sequence which is toxic to the pathogen or detrimental the replication, transmission or life cycle of the pathogen. The present invention is further drawn to a pathogenocide made from the binding domain, a cellular targeting sequence and/or membrane localization sequence that leads to membrane anchoring. The present invention is further drawn to nucleotide sequences encoding fusion proteins and pathogenocides and to vectors containing the nucleotide sequences; as well as methods of making the fusion proteins and pathogenocides and methods of making pathogen resistant plants, plant cells, or plant tissues with the fusion proteins and pathogenocides.